

2. U.S. Patent Application Serial No. 09/311,890, James H. Sabry, et. al., titled, "A DATABASE SYSTEM FOR PREDICTIVE CELLULAR BIOINFORMATICS,";

3. U.S. Patent Application Serial No. 60/134,104, Cynthia L. Adams, et. al., titled, "A DATABASE SYSTEM AND USER INTERFACE FOR PREDICTIVE CELLULAR BIOINFORMATICS,"; and

A1 4. U.S. Patent Application Serial No. 09/311,996, Eugeni A. Vaisberg, et. al., titled, "A DATABASE SYSTEM INCLUDING COMPUTER CODE FOR PREDICTIVE CELLULAR BIOINFORMATICS,".

At page 7, please **replace** the paragraph beginning at line 27 with the following **amended** paragraph:

A2 Although the above has been described generally in terms of specific hardware, it would be readily apparent to one of ordinary skill in the art that many system types, configurations, and combinations of the above devices are suitable for use in light of the present disclosure. Of course, the type of system elements used depend highly upon the application. Other examples of systems can be found in co-pending application U.S. Application No. 09/311,890, which has been noted above.

At page 15, please **replace** the paragraph beginning at line 29 with the following **amended** paragraph:

A3 Select embodiments comprising such approaches enable the use of a broad array of sophisticated algorithms to compare, analyze, and cluster gene and protein sequences. Many programs performing this task are known to those of ordinary skill in the art.

At page 45, line 26, please **replace** the paragraph with the following **amended** paragraph:

A4 Resulting sequences were clustered using an AlignX module commercial software package Vector NTI, which uses a Neighbor Joining algorithm for sequence clustering.

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